U.S. Army Garrison - Aberdeen Proving Ground
Site Specific Requirements

Appendix 2.1.4 APG UXO Sustainment

SPECIFICATION FOR GENERAL CONTRACTS
SECTION 02010
PERFORM UNEXPLODED ORDNANCE DETECTION,
PRELIMINARY IDENTIFICATION AND REMOVAL COORDINATION.

UNEXPLODED ORDNANCE (UXO)
PART I – GENERAL

B.1. BACKGROUND. This project is sited in the Aberdeen Area (AA) or the Edgewood Area (EA) of Aberdeen Proving Ground (APG). The construction "Statement of Work" lists the location of this project. Exact past usage of the area regarding Unexploded Ordnance (UXO) (impact area, burial site, etc.) is unknown. Since the history of the site is incomplete, it cannot be assumed to be free of subsurface UXO. The surface of the work area will be inspected and investigated for UXO by personnel employed by the Contractor before the Contractor can start any work, including pre-construction site visits. Areas where drilling, excavation, digging, trenching or other earth disturbance are required will be swept with geophysical remote sensing tools/instruments by pre-approved and certified Explosive Ordnance Disposal (EOD) personnel employed by the contractor. The geophysical tools may include seismic methods, metal detection, magnetometry, ground penetrating radar, resistivity, and geophysical diffraction tomography. The tools used must be able to clear for both ferrous and nonferrous metals, must be suitable for the field conditions, and capable of locating material as small as 20mm ordnance at a depth of two feet. During construction the Contractor will take appropriate action regarding the presence of UXO, as listed below.

B.2. UXO CONSIDERATIONS.

B.2.1. Removal and disposal of UXO is not a part of this specification. The intent is to assure that all possible efforts to detect and identify the presence of UXO are performed. The potential for UXO on this site is unknown, however due caution must be exercised to ensure that construction and excavation are accomplished with due regard for the potential presence of UXO.

B.2.2. When UXO is detected and identified as potentially loaded with explosives, chemicals, propellant, or pyrotechnics, or when the buried object is exposed and cannot be identified as non-UXO, the contractor will coordinate with the Government Emergency Response Authorities and the Installation Safety Division. The location of the object will be marked with a yellow survey marker flag, all activities on the site will cease, and all personnel will evacuate to a safe observation limit. The EOD contractor will maintain site access control and ensure personnel safety until the Government Emergency Response Authorities arrive and take control of the site. The contractor must supply the Global Positioning System (GPS) coordinates for each item to the Installation Safety Division upon arrival of the Emergency Response Team. The GPS positions must also be noted in the final report. The contractor will allow the Government EOD personnel sufficient time to complete field evaluation, render safe, recover, and dispose of UXO, per incident, when UXO is detected and identified.

B.2.3. UXO reporting procedures: The EOD contractor will notify the government Emergency Response Authority and the Installation Safety Division by dialing:

B.2.3.1. In the Aberdeen Area (AA):

Emergency Response: Government phone dial 911
Cell or non-government phone 410-278-7220

U.S. Army GarrisonAPG/ Safety: Dial 410-306-1095/1096

B.2.3.2. In the Edgewood Area (EA):

Emergency Response: Government phone dial 911
Cell/non-government phone 410-676-0960

GAPG/ Safety: Dial 410-306-1095/1096

NOTE: Ensure UXO personnel making the calls inform the Installation Safety Division that the Emergency Response call has been placed.

B.3. DISCLOSURE. Five days after Notice to Proceed, the name, address and telephone number of the EOD organization to be utilized will be disclosed in writing by the contractor to the Contracting Officer or the Contracting Officer's Representative (COR). The disclosure of an EOD organization other than those listed in Paragraph 4.1 will be accompanied by information sufficient to enable the Government to determine the organization meets the qualifications listed in Paragraph 4.2. If the Contracting Officer determines that the EOD firm does not meet the qualifications in Paragraph 4.2, the contractor will, upon notification by the Contracting Officer, submit an alternate source. Failure to provide the name of an acceptable EOD firm within 10 days after issuance of Notice to Proceed may be reason for a termination for default action. Upon acceptance by APG of the EOD organization, it may not be changed without written permission from the Contracting Officer. No information regarding the disclosure of the EOD organization will be included in the bid.

B.4. UTILIZATION.

B.4.1. The contractor will employ one of the EOD organizations or a Government (APG) approved equal that are listed below. EOD organizations that are readily available in the area are:

Earth Resources Technology, Inc. (ERT)
14401 Sweitzer Lane
Suite 300
Laurel, MD 20707
POC: Yorky Knowles
Office: (301) 323-1414
Cell: (727) 688-4856
Email: yorky.knowles@ertcorp.com

H & L Environmental Services
564 McArthur Road
Maxton, NC 28364
POC: Octavius Hondo Locklear
Office: (910) 674-1299
Cell: (704) 724-1419
Email: olocklear@hlenvironmental.com

EA Engineering
1311 Continental Drive
Suite K
Abingdon, MD 21009
POC: Scott Dobson
Office: (410) 671-6057
Cell: (410) 459-9435
Email: sdobson@eaest.com

CBRNE Analytical Remediation Activity (CARA)
Bldg. E-4220 Austin Road
APG, MD 21005-5001
POC: Michael Rowan
Office: (410) 436-1690
Cell: (717) 855-0313/(410) 652-3198
Email: michael.j.rowan.civ@mail.mil

Ordnance Holdings, Inc.
P.O. Box 932
Reisterstown, MD 21136
POC: Jenna Coven Perman
Office: (443) 522-2933
Cell: (443) 857-7474
Email: jenna@ordnanceholdings.com

USA Environmental Inc.
720 Brooker Creek Blvd. Ste. 204
Oldmar, Fla. 34677
POC: Stephanie Thoresen
Office: (813) 925-6732
Cell: (813) 217-3910
Email: sthoresen@usatampa.com

B.4.2. The following criteria will apply to all EOD organizations:

B.4.2.1. The organization will have a minimum of five consecutive years corporate experience in actual UXO fieldwork, including planning, locating, hand excavating and identifying UXO.

B.4.2.2 The organization will employ at least one technician who holds a Master Badge and/or a Senior UXO Supervisor, as defined in Attachment to Chapter 20, EP 1110-I-18, Ordnance and Explosive Response. The Corps of Engineers (COE) most current listing of personnel ratings will determine eligibility for Senior UXO Supervisor

positions. All UXO field personnel must have a certificate of graduation from the U.S. Naval School Explosives Ordnance Disposal.

4.2.3 The contractor will employ at least three individuals rated, as a minimum, UXO Technician II, as defined and monitored by the COE, and who hold certificates of graduation from the U.S. Naval School, Explosive Ordnance Disposal. These individuals must have a minimum of five years' experience in accepted procedures for detection, identification, and field evaluation of UXO.

B.4.2.4 The contractor will furnish documentation of their ability to meet the requirements of OSHA Regulation 29 CFR 1910.120, "Hazardous Waste Operations and Emergency Response."

B.5. SAFETY. The contractor will follow all safety rules as specified herein and all Occupational Safety and Health Administration (OSHA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and Resource Conservation and Recovery Act (RCRA) requirements that apply to the specific work being performed.

B.5.1. The approved EOD organization, and any subcontractor employed by the EOD organization, will comply with 29 Code of Federal Regulations (CFR) 1910.120. A Site-Specific Health and Safety Plan, prepared in accordance with 29 CFR 1910.120, must be submitted to the Contracting Officer or the COR, for government approval prior to initiation of each project. All work will be conducted according to the approved plan.

B.5.1.1. At a minimum, each two-person field team must be comprised of no less than one Master Rated UXO Technician and/or U.S. Army Corps of Engineers (COE) qualified UXO Safety Officer, and one UXO Technician II. Any variation must be addressed in the Site-Specific Health and Safety Plan. The organization will use only technicians holding a certificate of graduation from the U.S. Naval School, Explosive Ordnance Disposal, for potential UXO location, excavation, and identification. When two or more field teams are deployed, an additional Safety Officer must be on-site to supervise and perform Quality Assurance/ Quality Control (QA/QC) functions.

B.5.2. APG Edgewood Area health and safety: In addition to the preceding health and safety requirements, the following will apply to work in the Edgewood Area of APG:

B.5.2.1 EOD contractor employees will be considered Red Blood Cell Cholinesterase (RBC-ChE) Category II and III as classified by ISO site categories. Each employee performing field work in the Edgewood Area will have an annual physical as required by Technical Bulletin (TB) Med 40-8 and 29 CFR 1910.120. Contractors must have a current RBC-ChE as part of their HAZWOPER physical and must include documentation with their Site Specific Safety & Health Plan. To establish uniform specimen processing, shipping, and receiving procedures for the Department of Defense (DOD) Cholinesterase Monitoring Program and to establish a common reference point for these procedures, contractors are required to have their RBC-ChE specimens drawn by their own medical laboratory/physician and sent to:

Commander
Public Health Command
ATTN: MCHB-TS-LRD (Cholinesterase Laboratory)
Bldg. E-2100
Aberdeen Proving Ground, MD 21010-5403

NOTE: Provisions to coordinate accounts with Public Health Command (PHC) are the contractor's responsibility.

B.5.2.2 Specimens for cholinesterase analysis are to be collected in lavender top Ethylenediaminetetraacetic acid (EDTA) vacutainers using standard venipuncture techniques. Phlebotomist will ensure that at least 2 mLs of blood are collected to allow sufficient red blood cells for analysis. All specimens will be identified with the patient's full name, age, social security number, date and time the specimen was drawn, and phlebotomist initials.

All specimens shall be centrifuged to ensure that the red blood cells (RBCs) have been separated from the plasma in accordance with local standard operating procedures. Separation must occur within four hours of specimen acquisition. Any hemolyzed specimens must be discarded and redrawn. The plasma and the buffy coat are removed

from the packed RBCs and discarded immediately after centrifugation. If the specimens cannot be analyzed and/or shipped immediately, they must be refrigerated at 2-8°C, and not frozen.

Facilities requesting primary RBC-ChE analysis by the Clinical Reference Laboratory (CRL) must ensure that specimens are received at the CRL within five days of date drawn.

B.5.2.3 Specimens shall be packed in an appropriately sized, insulated container with a sufficient number of ice packs to ensure the internal temperature of the shipping container is maintained at 2-8°C for a 24-hour shipping period. Use the following guidelines for shipping RBC-ChE specimens:

(a) Layer bottom with appropriate number of ice packs, i.e., Polar Pack® or Super Ice® Re-usable freezer packs. DO NOT USE DRY ICE OR WET ICE TO SHIP SPECIMENS.

(b) Layer of packing material, i.e., absorbent pads or bubble plastic.

(c) Specimens

(d) Layer of packing material.

(e) Layer of appropriate number of ice packs.

(f) Repeat steps (b)-(e) until all specimens are packed.

(g) Fill in all dead space with appropriate amount of packing material.

Shipments of specimens to CRL, PHC shall be scheduled to ensure that the specimens will arrive between 0830 hours Monday and 1500 hours Thursday. This scheduling is necessary to ensure that laboratory personnel will be present to accept the shipment and that the specimens will be properly stored. Questions concerning specimen shipping procedures should be directed to CRL, PHC, at commercial (410) 436-3983/2550 or DSN 584-3983/2550.

B.5.2.4. The UXO personnel working on-site will be trained and qualified to wear National Institute for Occupational Safety and Health (NIOSH) approved Chemical, Biological, Radiological, Nuclear, and high-yield Explosives (CBRNE) or military masks. CBRNE masks can be provided by the contractor, military masks must be issued by the government. Each UXO contractor will carry their mask at all times while working on-site, as required. The masks are to enhance safety and are intended for escape purposes only. The UXO personnel must be trained and certified to use MARK I antidote kits.

B.5.2.5. The field team will wear contractor provided chemical resistant gloves when performing intrusive work.

B.5.2.6. Each two-person field team will have one Gross Level Chemical Agent Detector unless otherwise specified. The detector will be contractor provided, in sufficient quantity to prevent delay of the UXO search or construction. The detectors may require maintenance and calibration downtime. Spare units for each team are recommended.

B.5.2.7. The Government will provide a written or computerized toxic aide briefing to the contractor. The contractor will brief his/her employees prior to performing any intrusive investigation, excavation, or surface sweep on any site in the Edgewood Area.

B.6. <u>EOD CONTRACTOR OPERATIONS</u>.

B.6.1. Notification requirements:

B.6.1.1 All UXO contractors shall provide a written schedule of their planned activities to the Aberdeen Test Center (ATC) Range Control office at least one week prior to commencing work.

B.6.1.2. All UXO contractors shall contact ATC Range Control prior to any intrusive work. For work in the Aberdeen Area contact ATC, B Tower, at 410-278-2250. For work in the Edgewood Area contact ATC Range Central at 410-436-4471. No intrusive work is allowed until coordinated with ATC Range Control.

B.6.1.3. All UXO contractor's Safety and Health Plans shall include a statement to the effect that no intrusive work will be conducted without the assurance of ATC Range Control support and availability.

B.6.2. The UXO search will consist of a visual surface inspection, and surface and subsurface sweeps with geophysical tools/instruments capable of detecting both ferrous and non-ferrous metals. Suspected UXO items will be investigated further to determine if they are UXO. If UXO avoidance is required due to the nature of the project, the zero-anomaly area will be clearly demarked with adequate signage.

B.6.3. The EOD organization will comply with the Site Safety and Health Plan, in accordance with 29 CFR 1910.120, once the U.S. Army Garrison, Aberdeen Proving Ground, Installation Safety Office (ISO) has approved it. The ISO must also approve any changes to the Plan prior to its implementation.

B.6.4. The EOD organization will provide UXO recognition training to all site workers.

B.6.5. Disposal of debris generated by UXO search: All ordnance related materials and debris (such as empty casings, parts, fragments, etc.) that are determined to be non-UXO will be segregated from all other waste accumulated as part of the UXO search and identification project.

B.6.5.1. Both ordnance related and non-ordnance related waste will be disposed of through the APG Directorate of Public Works. Arrangements for disposal must be made through the COR prior to the initiation of fieldwork.

B.7. <u>EOD RESPONSIBILITY OF THE GOVERNMENT</u>. Government EOD personnel (i.e., military EOD Personnel) will accomplish field evaluation, render safe, recovery and final disposition of all UXO.

B.8. <u>SCHEDULE REQUIREMENTS FOR UXO</u>. Submit site-specific safety plan within 7 days after receipt of Notice to Proceed. Work will not commence on clearing, grubbing, and excavation operations until the initial UXO search has determined the area to be free of UXO to a safe depth as required for the phase of work to begin.

B.9. <u>FINAL REPORTS</u>. The Contractor will submit six copies of a final UXO findings report for each site completed. The report will detail the number, type, location as determined by GPS, and depth of UXO and non-UXO contacts identified and removed from the site. One copy of the report must be provided directly to the Installation Safety Division.